

Furnace Replacement/ Heating of New Additions Information Handout

1. When adding living space to a home, a **heat loss calculation** must be submitted for a permit. This calculation includes the existing home. The furnace must be sized according to the calculated heat loss.
2. All new furnace installations must have a safety test (**orsat test**) performed by a licensed gas contractor. A copy must be sent to the Building and Inspection Division or left on site near the furnace.
3. **Combustion air (outside air) must be provided by ducts** that have unobstructed areas not less than the area of the minimum required common flue or flues serving the heating system and other fuel-burning appliances in the area. The air brought in by the duct must discharge no more than a foot above the floor.

Alternate combustion air method – Combustion air may be introduced into the return air plenum of a forced air system that has an unobstructed opening into the appliance area installed in the supply side of the system. The opening shall have a minimum area of 50 percent of the common flue area.

All outside air openings in exterior walls shall be not less than one foot above grade level and must be protected with screening of not more than 1/2" nor less than 1/4" mesh.

4. **Transite flues** – The Building and Inspection Division has found a large percentage of transite flues in various stages of deterioration. These flues are a potential life-safety hazard if pieces fall off and block flue products from being released. These products then back up into the home.

The Heating Code will not allow continued use of a deteriorated flue. Therefore, unless specifically approved by the Heating Inspector, all existing transite flues shall be replaced when new furnaces are installed.

5. All furnaces must be **A.G.A. approved** and installed according to the manufacturer's requirements.
6. **Furnaces in a small room must have ventilation** provided via grills or openings to adjoining rooms so the confined room does not overheat.
7. When installing a new furnace and/or flue, **proper clearances** must be maintained from them to other surrounding objects according to their listing, which is located on the appliance or flue.